

ABSTRACT OF THE DISCLOSURE

A method and apparatus enables a base station to control the reverse link data rates of the mobile stations. Such control may be used to improve reverse link throughput, and such improvements may be balanced against fairness of service interests. Broadly, a radio base station (RBS) makes per-mobile station rate control decisions in each rate control interval based on each mobile station's desired rate and past reverse link throughput. These values may be used to compute a priority value for each mobile station, which values are then used to prioritize the mobile stations in rank order. Rate control decisions are made for the mobile stations in rank order based on their desired rates and remaining reverse link capacity. In one embodiment, the mobile stations provide path loss information to the RBS, and it computes each mobile station's desired rate as the mobile's achievable rate assuming it transmitted at maximum power.